

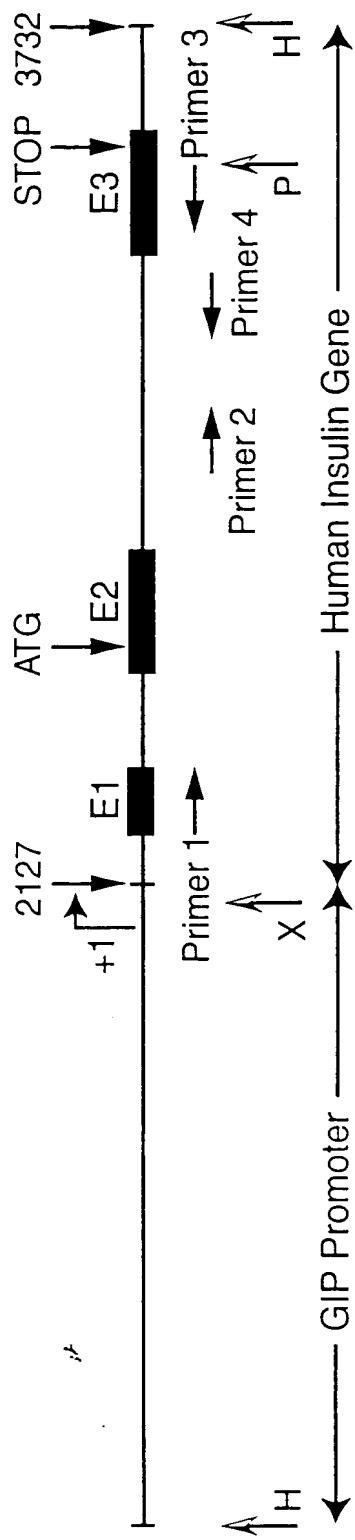
**Figure 1**

STC-1      GTC-1

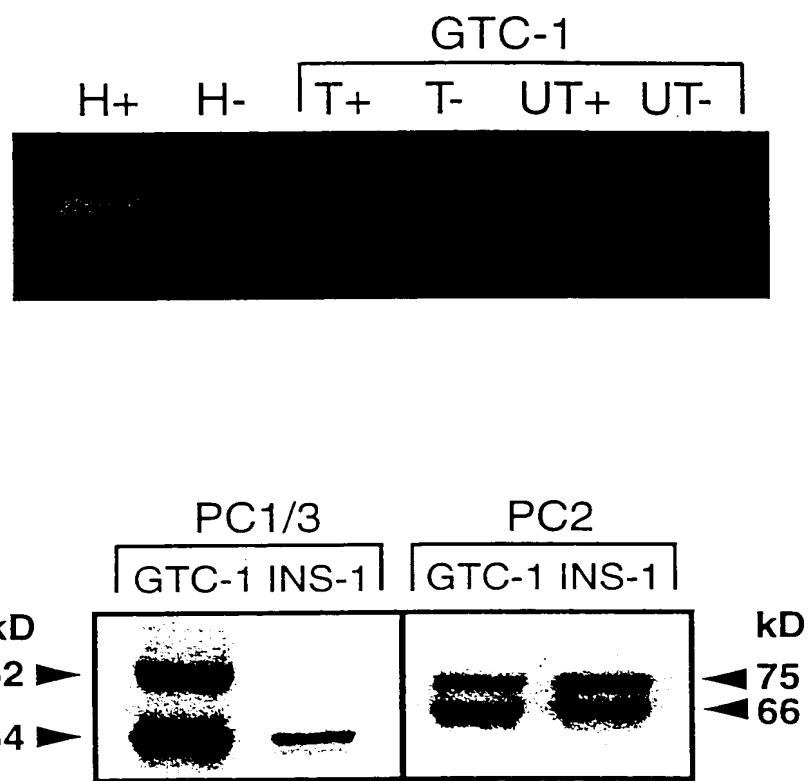


**Figure 2**

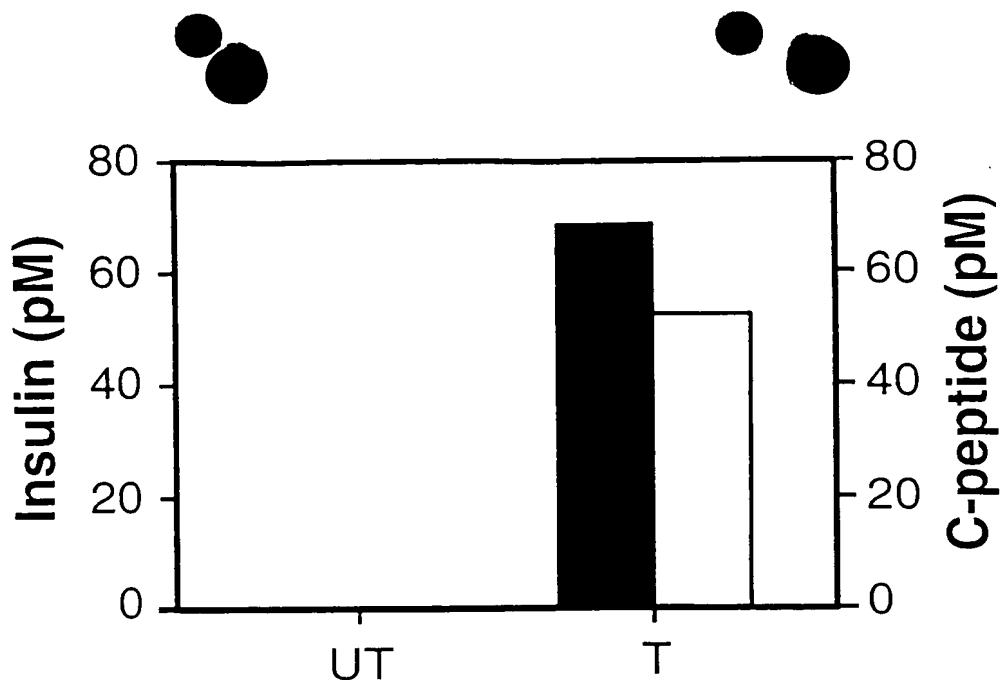
ATG  
2127  
+1  
E1  
E2  
STOP 3732



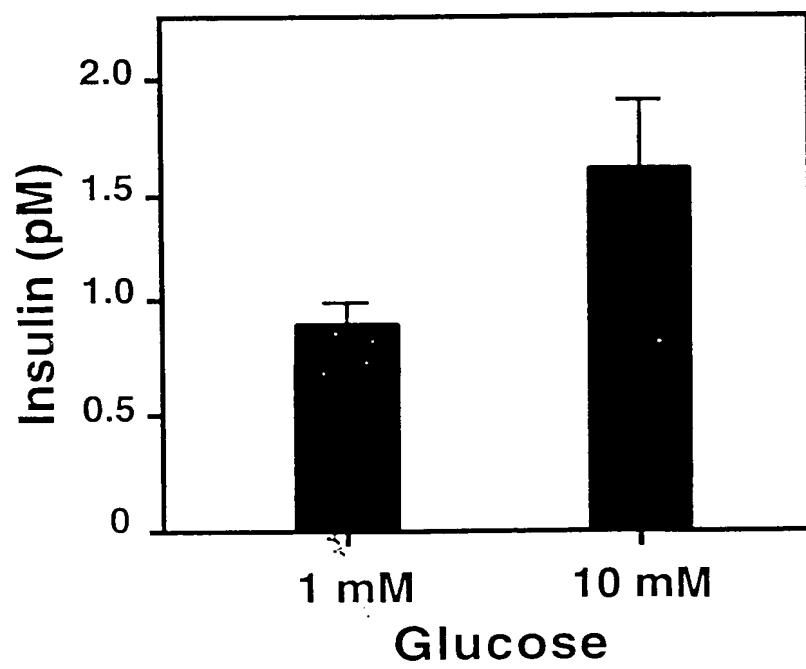
**Figure 3**



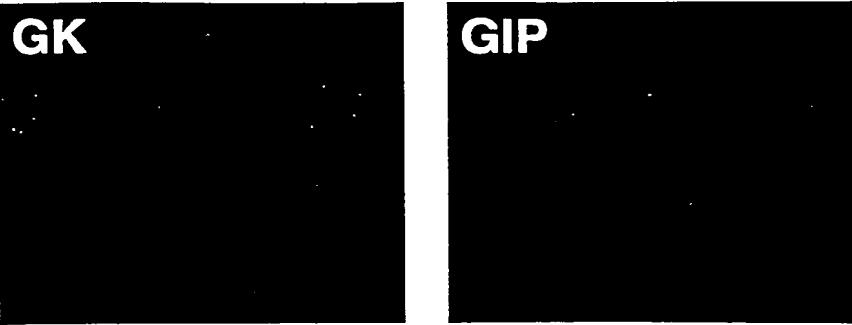
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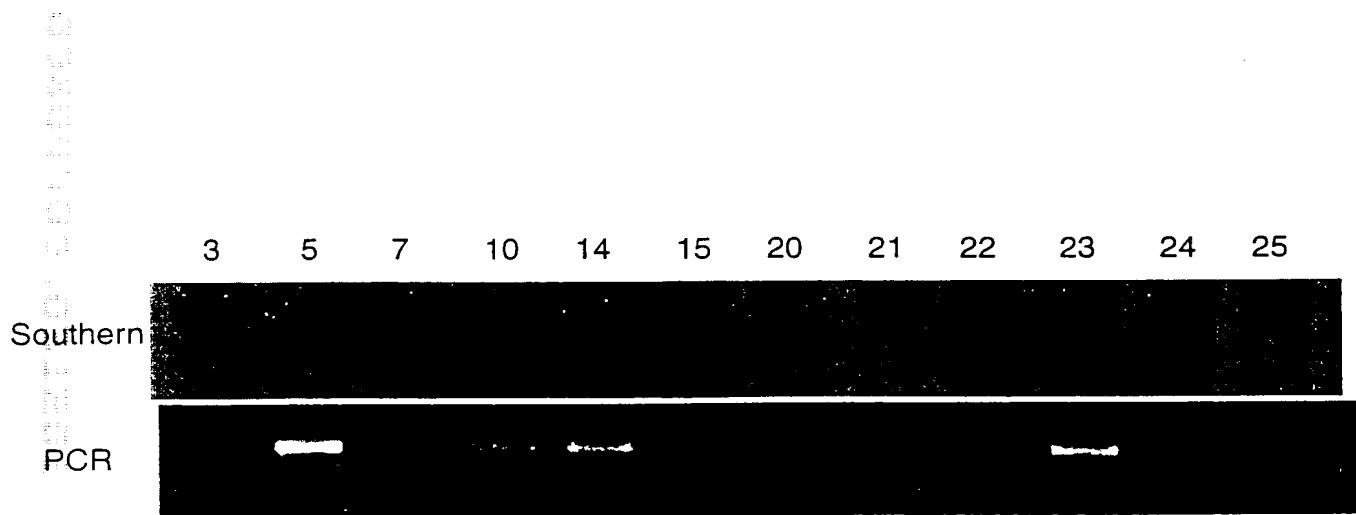
**Figure 5**



**Figure 6**



**Figure 7**



**Figure 8**

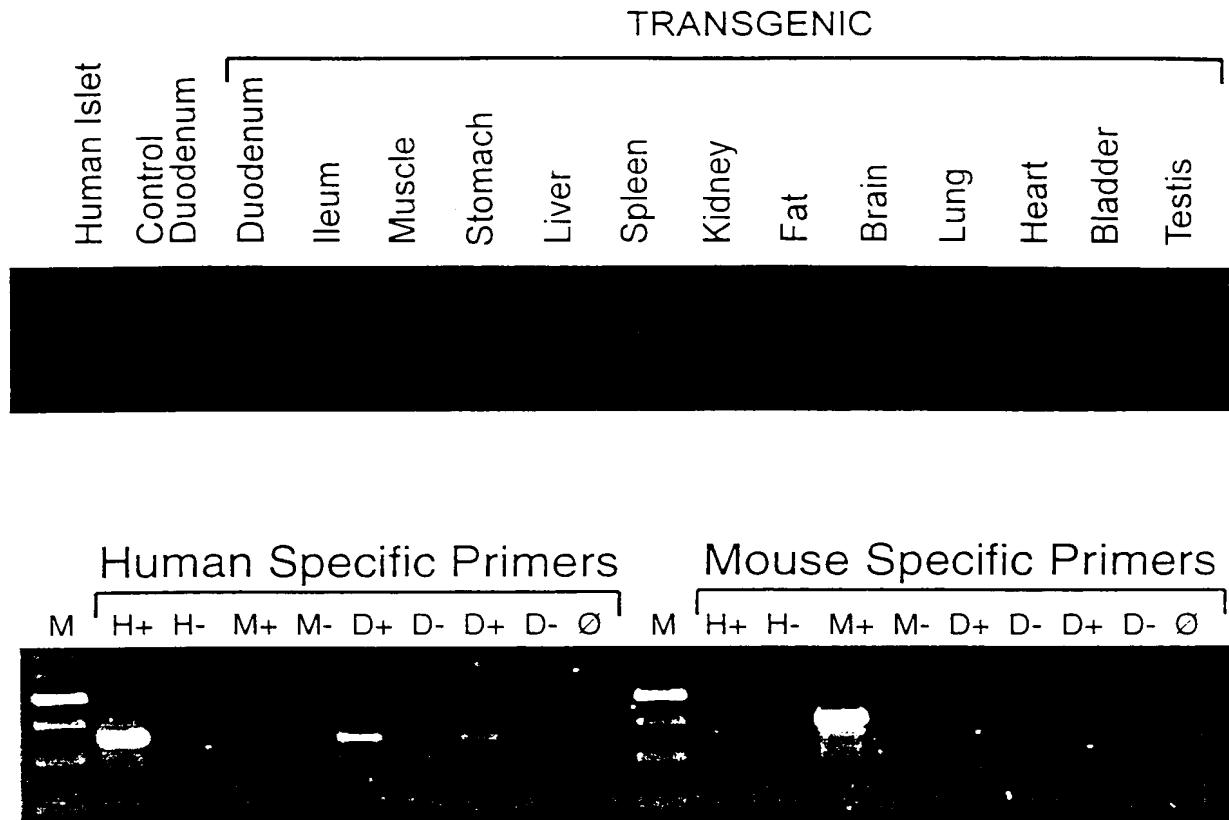


Figure 9

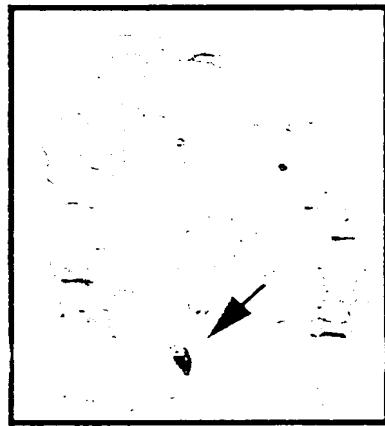
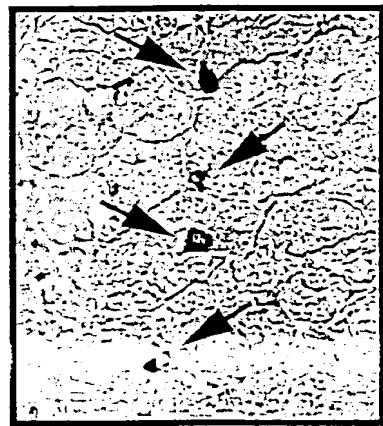
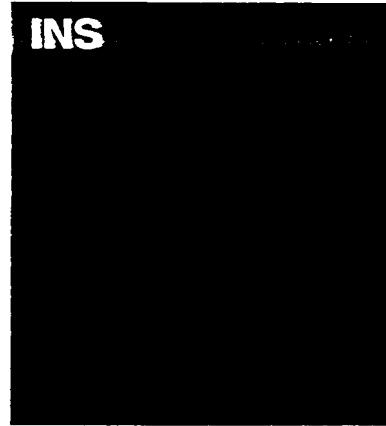
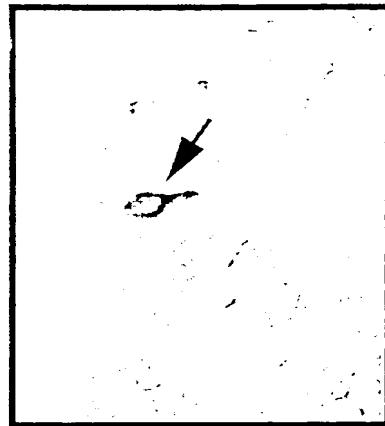
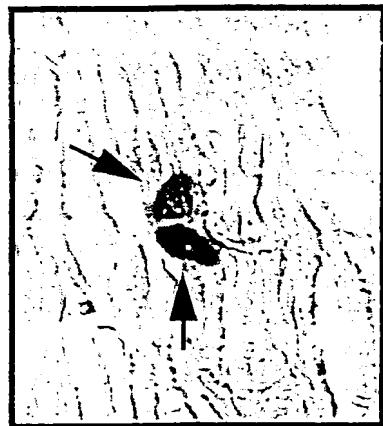
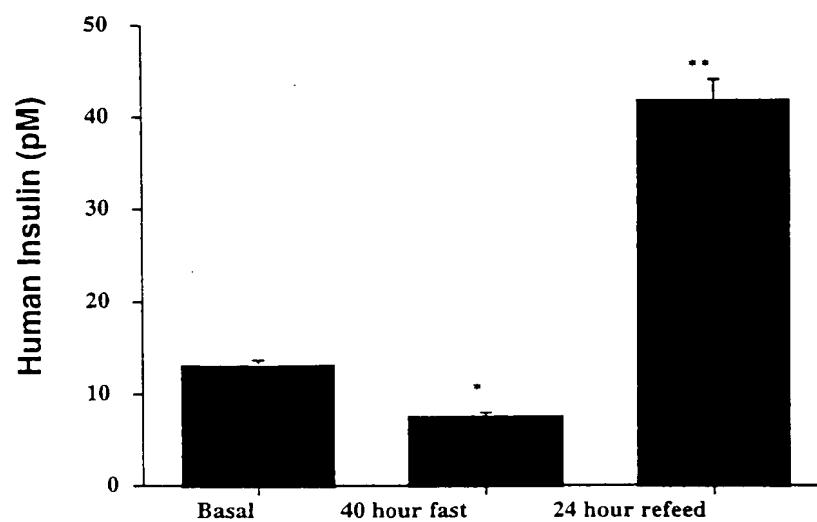
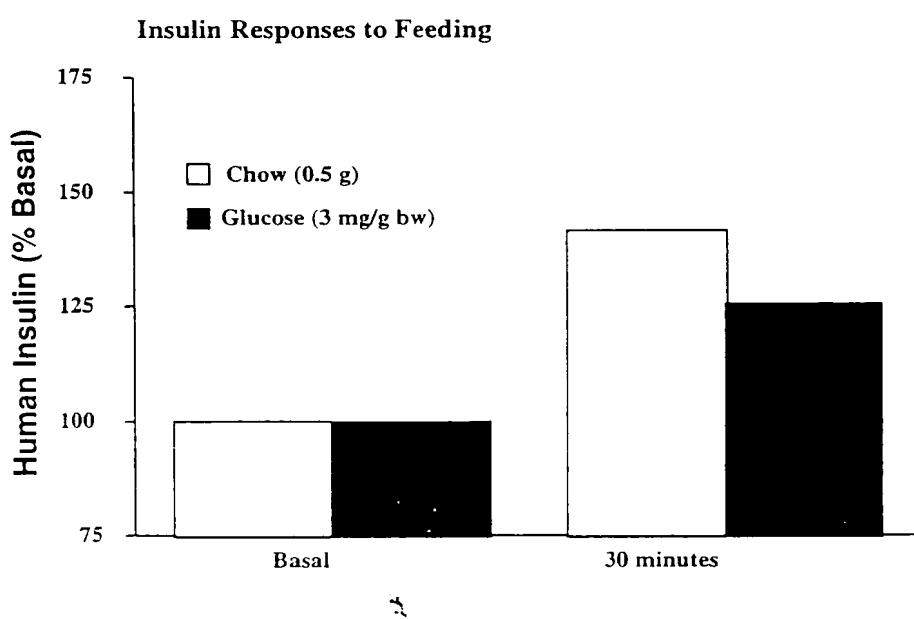


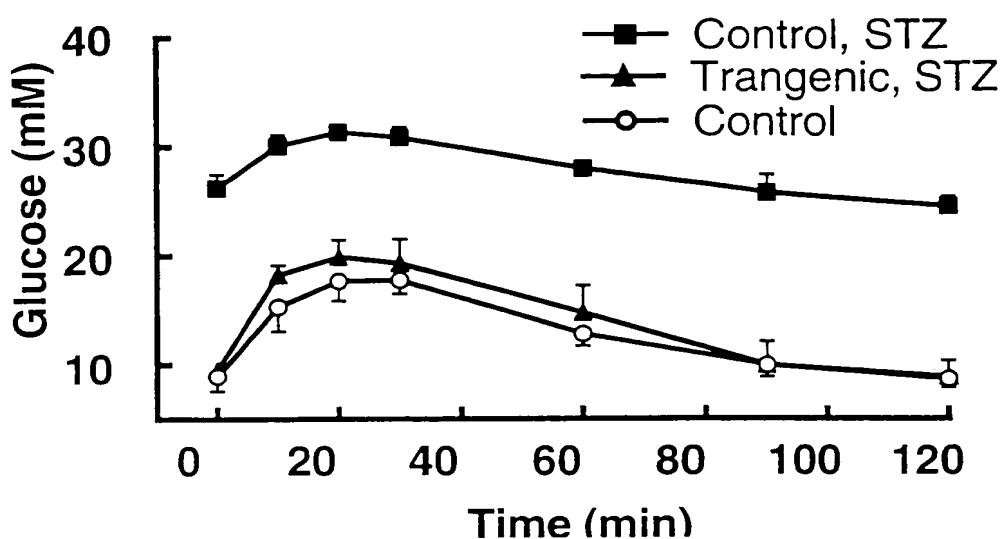
Figure 10



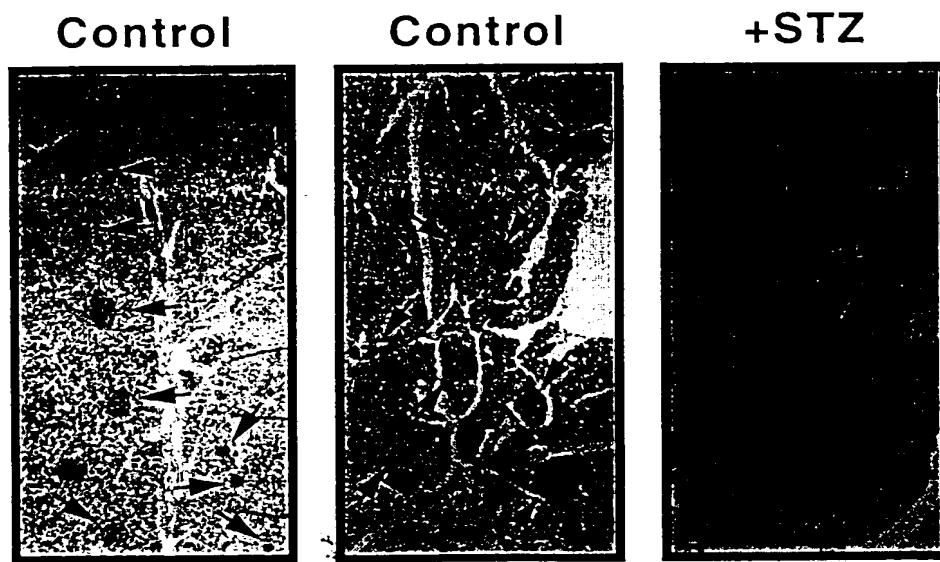
**Figure 11A**



**Figure 11B**



**Figure 12**



**Figure 13**

## GIP Promoter

atctctccag tcccttcctc aacccttctga gaacaggcaa actccaccat gattggctta  
taaatcggtt tatggaccta ctaaggatgt aacaactggg agcatgctt cctagcatgt  
ccggaaacccg gagttcagtc cctagcactg cacaatctca gtccttatga agtagaggg  
agatcagagg ttcaaggaca acatcaattt gagaccagcc tgggtctactt accaaagaaaa  
gaaagagaga aataaataaa tagatagata aataaataaa taagtaaata aatatctt  
ggctggagag tttggttcagt gttaagagc acttattgtg gggttgggga tttagctcag  
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aaacaaaaca aaacaaaacaa acacaaaacc ctgtctggaa aacacctaaa  
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attaggtgtt taatgggtt cactgggcag gaccagtggg cttgagcttc aaagataaga  
gttttcagg ttaatcgca ccctgtgggtg tgtggatata aggaagctaa cacagggtct  
tgaagcaaga tcctgag

## Mouse chromogranin A (Chga) gene, promoter region.

ACCESSION L31361

1 ccggaaattac ccactacgtt ggaattctat aagggttggg ttgcgttgcgtt tgttacagc  
61 tgcgttgcgtt gcacccagca cagctgatgt gttctaagcc cacgtcgatgt cttAACACAT  
121 ggttgtgaa tgaatacacg cgaagccgggt tctcatttag gggcatgatgt aggcagaggt  
181 gtggcagga agcaggaaag agcggaaaca ggtgcggaca gaaaggaggg gctctgaagg  
241 atgcaggatca gtgcggaaact gtcatccaga taccaggatc actgtggccc tagggccaggc  
301 tgcacggggc ttccatgtg tgcgtccccag ggtgagagca gaactgcgggt gggcgccggc  
361 gaaggaaacc accaggaaag cagggttgc cccaaattat ccaggttta agtacattt  
421 agagacaagg ctgggtgtt gaaggtcaga ggtgtccctg ggggtgttgc cttaggactga  
481 ccacttctgt tttatgttta tgggtgaaac tgcctacac tgcgttgc cttacttgc  
541 ctttgagagc tttgttgc tttgttgc ggacccaccc atgtgtgggt tggacccatca gtcacacact  
601 gaacgtgtt gtgttgc tttgttgc cagggttgc cggactgttgc aagcagtgt  
661 caactatcccc tatcaaataa caattaaata cacacagaat gcgaggcaca caactgttgc  
721 tcaggagagg cttcgctcgt gcaagggtt caagaggctt ctgtgggacc cgctggatgt  
781 tccaggaggat tttttttttt gggcgttgc tttttttttt ccagccaaat gaaatcaaga gaaaaggatc  
841 cgaagtatag gaaaactcag cagtctggag aggttaatag gggaggaatc cgaggctc  
901 agacaggagt gacttgc tttttttttt cggacgcaca gcaagggttgc aggtggatgt cagctgttgc  
961 accttctgaa gcccggatcc tttttttttt accagatatac agcggatag agacagctga  
1021 tggagaagct ggagggtgggg gggggggaccc cgaagggtggg gaaagggttgc gggggggggc  
1081 tcctatgacg taattttttt ggtgtgttgc cgcgtgttgc tgcgtgttgc tttttttttt  
1141 agccggcata gttttttttt cttttttttt cttttttttt cttttttttt cttttttttt  
1201 accgttactg cttttttttt cttttttttt cttttttttt cttttttttt cttttttttt  
1261 cccgcatect cttttttttt cttttttttt cttttttttt cttttttttt cttttttttt

11

Figure 14

Mus musculus secretogranin II (Scg2) gene, promoter and exon 1, complete sequence.  
ACCESSION AF037451

Mus musculus glucokinase gene, 5' flanking region.  
ACCESSION U93275

1 agcttaggt gtgtaatat ctacttggc gtagggcct tggcataact aagtaagttt  
61 ccccttcact ggggtgtacc agtttacccct ggactgtcta agcaacaaga aggatagaca  
121 tggcctacca cagattcat gtcgtccact ggctatgtca gaacatgtag gagctttgg  
181 aatcagtcaa acaggtaattt tcagactgcc ttcccgtcggt ggggcttcc cgaaggccata  
241 ttcccctag agtcagccct tcccaagctga ggacaagctg tactggacag atgccagcca  
301 cttgaactgg gaatacatgg tcatttaggc agctggccta tctcatccat ggtacttgtat  
361 ggctcggtt cagcacctca cagaaagtgc agacgggagg ctccggaa aacagagaag  
421 caggcaggag atcctgcagg caatccctc gctccacagc ctgcacggac ttccctcagc  
481 ctttagtgcgt gtgggtccca tctgagaaca ttgggttatat gtatccat aaccgatctg  
541 cctttaagga gtggaaagaaa aaaactgtgg tgtttggcct acctttatga taatggcctt  
601 ttcatctcc taataaaatat tgccaagtag ggttagattct atacgaaagc tcttaacccca  
661 tggtatttgc aaatcatgtaa ggtgctaata atgaataactg gatgcagtc gtacaggat

721 ataaaatgga atgttaagacg ctgttgctat gaatggtag ctaactagat gttgtacaag  
781 aaatgttgac gtatgtacgt gtggaaactt ggtattgaag atgtggactc gaaactttgt  
841 ggatTTTtg atGCCatgtat aaaaatgtga agaatactgt tccttaccaa aaagaagaag  
901 aagaaggaga aggaggagga agaggaggag gaggaagaag agggggagga agaagaag  
961 aaggaggagg aagaggaggag ggaggaagaa gaggaggagg aggaagaaga agagaaggag  
1021 gaggactagg aggaggagga gaagaaggag aaggggaagg agagagtgc cagaacattt  
1081 ggggtgccat cagaataccca gatactccag acatagtcac agaaggactg gtttgttgt  
1141 taaatagtg tttgtgggaa aacctgcagt gagatgtgt gtcttagaaa  
1201 tgataggcaa gattcatcca caagaatgcg acaagatggc tgctgaaca agccctgaac  
1261 attaacagca ccagtagacc tgcttacacg gaagaaagca atctcatagg ccctcacccc  
1321 aaacaaagac tacagacagc agaggaactg gagagcagga gaaattgggt ctcccttta  
1381 tgagccccct aactggttgt caaaactcta atggtcagcc ctgaaatcat atgcacaaag  
1441 taatactgc gcaactgaac agattgtgc tttgtgtgt tttgtatga taacaaagaa  
1501 gaaaaggccc catgttagag agggagcaag gtggcatgg aggtatggaa ggagttggaa  
1561 ggaggggtga gaaggggaaa gtgatgtaat tatctttaa ttataaaaa aataaaaaat  
1621 gggctggta gatggctcg tggtaagag caccgcactg ctcttccga aggtctggag  
1681 ttccaaatccc agcaaccaca tggtgctca caaccatccg taacgagatc tggccccc  
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1801 aaaaaaaaata aaaaataaaaaa tattagaata aatgttagag gaatattttt aatttaacaa  
1861 ctgggtgtg gcaaaagctt tttcaacaa aaacttaatc cctcagataa gaaaagacta  
1921 gaatccacga cgtggataga tacttctgtt tgatgcaga cactattat caggttgtaa  
1981 cttagcaga acttgagttg taacttgcg gaaacacaaa cacccttgc aaacaaaaga  
2041 ttactagata ttttagatga aatataaaaaa tactttccac aactgtatgg taggaaacag  
2101 ttcataatgtataataattat tgaacaaata atcctttaaa gaagaaatcc agaggaatag  
2161 caagtttaggg gaagagaggg tttgtgtgtg tttgtgtgcg cgcacattt tagccaaaat  
2221 agatgtatata cttaatgaa catgccattt aaacccattt tttgcatac agtttacata  
2281 tgctaatgaa tactttaaa aaaaacatg ggattggaga gaaatggctc agtggtaag  
2341 agtcaattc ccagcaacca catgattgtt cacaaccatc tttatggga tctgtgc  
2401 tctctggta tttctgttgcg aagtgcgttgcgttataa ttataaaaaa ataaatcttt  
2461 aacccaaaaa ccccccataat ttcaacaaca gatatgcctt ggtctgggc ttccaggcat  
2521 agaaatagaa acacacagag tttggagccca gtgcgggtca ggtccggcat tccagttcag  
2581 gtttcagacc aagagaaagg gaaaagaaga gacaagcaac aag

H.sapiens adenosine deaminase (ADA) gene 5' flanking region and exon 1 (and joined CDS).  
ACCESSION X02189

1 tccaggaaat ggcgcgttcca ggccggcggg cgggggcgccc gtcggcgca gagggcgccc  
61 cccgggaacg gggcgccggcg gggcgccgggg cggggccccc cccgttaaga agagcgfggc  
121 cggccgcggc caccgcgttgc cccaggaaaa gcccggcgcc caccggcgcc gcagagaccc  
181 accgagcgcc ggcgggggaa gcgacgccgg ggcgcacgag ggcacc

Homo sapiens mRNA for pre-proinsulin.  
ACCESSION X70508

MALWMRLLPLLALLALWGPDPAAAFVNQHLCGSHLVEALYLVCGERGFFYTPKTRREA  
EDLVGVQVELGGGPGAGSLQPLALEGSLQKRGIVEQCCTSICSLYQLENYCN"

1 gctgcgttcatc aagaggccat caagcacatc actgtccttgc tgccatggcc ctgtggatgc

Figure 16

```
61 gcctcctgcc cctgtggcg ctgctggcc tctggggacc tgacccagcc gcagccttg  
121 tgaaccaaca cctgtgcggc tcacacctg tggaaagctct ctacctagtgc tgccgggaac  
181 gaggcttctt ctacacaccc aagacccgccc gggaggcaga ggacctgcag gtggggcagg  
241 tggagctggg cggggggccct ggtagcaggca gcctgcagcc ctggccctg gaggggctcc  
301 tgcagaagcg tggcattgtg gaacaatgtc gtaccagcat ctgctccctc taccagctgg  
361 agaactactg caactagacg cagcccgca gcaagcccccc accccggcc tcctgcaccg  
421 agagagatgg aataaaagcccc ttgaaccagc
```

Homo sapiens leptin (LEP), mRNA.  
ACCESSION XM 004625

"MHWGTLCGFLWLWPYLFYVQAVPIQKVQDDDTKTLIKTIVTRINDISHTQS VSSKQKV TGLDFIPGLHPILTLSKMDQTLAVYQQILTSMPSRNVIQISNDLENLRD LHLVAFSKSCHLP WASGLETLDSLGGVLEASGYSTEVVVALSRLOGSLO DMLWOLDLSPGC"

Figure 17

2101 gctatcacac agtgggttgtt ggatctgtcc aaggaaactt gaatcaaagc agttaacttt  
2161 aagactgagc acctgcgtca tgctcagccc tgactgggtgc tataggctgg agaagctcac  
2221 ccaataaaaca ttaagattga ggcctgccc cagggatctt gcattccag tggtaaaacc  
2281 gcaactcaccc atgtgccaag gtggggtatt taccacagca gctgaacagc caaatgcgt  
2341 gtgcagtta cagcagggtgg gaaatggat gagctgaggg gggccgtgcc cagggccca  
2401 cagggAACCC tgcttgact ttgtaaatcg tttactttc agggcatctt agcttctatt  
2461 atagccacat ccctttgaaa caagataact gagaatttaa aaataagaaa atacataaga  
2521 ccataacagc caacagggtgg caggaccagg actatagccc aggtcctctg atacccagag  
2581 cattacgtga gccaggtaat gaggactgg aaccaggag accgagcgct ttctggaaaa  
2641 gaggagtttc gaggttagt ttgaaggagg tgagggatgt gaattgcctg caagagagaag  
2701 cctgtttgt tgaagggtt ggtgtgtgg aatgcagagg taaaagtgtg agcagtgt  
2761 tacagcgaga ggcagagaaa gaagagacag gaggcaagg gccatgtga agggacctg  
2821 aagggtaaag aagtttgata ttaaaggagt taagagtagc aagtctaga gaagaggctg  
2881 gtgcgtggc caggggtgaga gctgcgtcg aaaatgtgac ccagatcctc acaaccacct  
2941 aatcaggctg aggtgttta agcccttgc tcacaaaacc tggcacaatg gctaattccc  
3001 agagtgtgaa acttcctaag tataatgtt tgtctgttt tgaacttaa aaaaaaaaaa  
3061 aaaaagttgg cgggtgggg tggctcacgc ctgttatccc agcacttgg gaggccaagg  
3121 tggggggatc acaaggtcac tagatggcga gcatctggc caacatggt aaaccccgct  
3181 tctactaaaa acacaaaagt tagtgcggc tggtggcgcc cgctgttagt cccagccact  
3241 cgggaggctg agacaggaga atcgctaaa cctgggaggc ggagagtaca gtgagccaag  
3301 atcgccac tgcactccgg cctgtatgaca gagcgagatt ccgtctaaa aaaaaaaaaa  
3361 aaaaagtttgg tttttttttt aatctaaata aaataactt gccccctg

Homo sapiens cholecystokinin (CCK), mRNA.

ACCESSION XM\_003225

"GSAAGLLRLETPSQLRPNPKAMNSGVCLCVLMAVLAAGALTQPVPPADPAGSGLQRAE  
EAPRRQLRVSQRTDGESRAHLGALLARYIQQARKAPSGRMSIVKNLQNLDPSHRISDRD  
YMGWMDFGRRSAEYEYPS"

1 ggctcagctg cgggttgtt cggccaaagcc agctgcgtcc taatccaaaa  
61 gccatgaaca gggcggtgtt cctgtcggtt ctgtatgggg tactggcggtt tgccgcctt  
121 acgcagccgg tgcctcccgc agatcccgcg ggctccgggc tgccggcc agaggaggcg  
181 ccccgtaggc agctgagggtt atgcagaga acggatggcg agtcccgagc gcacctggc  
241 gcccgttgg caagatacat ccagcaggcc cggaaagctc ctctggacg aatgtccatc  
301 gtaagaacc tgcagaacctt ggaccccgcc cacaggataa gtgaccggga ctacatggc  
361 tggatggatt tggccgtcg cagtggccgag gatgtatgtt accccctcta gaggaccccg  
421 ccgcctatcag cccaaacggga agcaacctcc caacccagag gaggcagaat aagaaaacaa  
481 tcaacactcat aactcattgt ctgtggagtt tgacattgtt tgatctatt tattaagt  
541 tcaatgtgaa aatgtgtctt gtaagattgtt ccagtgcac cacacaccc accagaattt  
601 tgcataatggaa agacaaaatgttttccat ctgtgactcc tggctgtaaa atgttgat  
661 gctattaaag tgatttcattt ctgcc

CCK Promoter (Rat)

ACCESSION S70690

1 aattcgccg ctaagccca ttattcacgt ttccagacat gtcacaaata cagctaattc

Figure 18

61 ctacaacctg agctgtgtca tgggggggggg gggaaatcacc cacagcattt aatctgtgc  
121 tggtttaaac acgttgcttc taagtaaaga gaccgctaga gccacaacca ggaacctaac  
181 tgctgctggc atcacttgcc ttctcatgt ctccctcagc cggAACCCCCC ccacgctggg  
241 tgccctctt atttagaaag agtttctaag ctttctct tcaccctaga ctggcaaggt  
301 tgagggttagg ctgagggttg caagactgtg agaaaaggaa gcccctctt tcctctgt  
361 cggtgagtagt ctcagccaag atcctcacca cccagtggaa tcccgtaact ctagagggaaa  
421 ggaagaactc tagaggacgg gaagatcatt gcaagctcc ctagatgtgc gagccccagcc  
481 cgctccactc agccagccag agcttgaggg tgcttgagac actctctggc gccacttcgc  
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661 taagacgaga atccacgagg ccaactgtga ttgagttctg aaaaatttag agccctactc  
721 ccctctctca ctgtgggag cccactcagg tctgaagtgcc tccagagaa catggcagaa  
781 ttacatttgc tgacacccatg tctgtgaggg tcccccgggtt tccggaaagg atttgatccc  
841 tcaaaagctca ctaaaacagtg gtcagcttc ccattccaga caaactccctg ctctctccg  
901 ggagtaggggg tggcacccctc cctgaagagg actcagcaga ggcaccgaac agggtgggaa  
961 gggaaagctgt ttagataaag aggaggactc atacaaagta ccccccctgg gaggggctat  
1021 cctcattcac tggccgttt ccctctccc gggggggccac ttgcgtcggt ggtctctcca  
1081 gttggctgcct ctgagcacgt gtcctgcgg actgcgtcg cactggtaa acagatgact  
1141 ggctgcgtac cggggggggc tattaaagag gagtcgcctt gccgcctgccc ctcaacttag  
1201 ctggacagca gccgtggaa accgccaagc cagctgactc cgcattccgaa ggtaagtggc  
1261 tggcagatcc aagaatcatg agtgtgaaga actggcctgt agtttgcat ctattggcgt  
1321 ttatgttttc cattttctgt gcctccctc acttgacagc tg

Human messenger RNA for growth hormone (presomatotropin).  
ACCESSION V00519

"MATGSRSTLLLAFGLLCLPWLQEGSAFPTIPLSRFDNAMLRAHRLHQLAFDTYQEFE  
AYIPKEQKYSFLQNQPQTSLCFSEIPTPSNREETQQKSNLLELRISLLIQSWEPEVQFLRS  
FANSLVYVGASDSNVYDLLKDLEEGIQTLMGRLEDSPRTGQIFKQTYSKFDTNSHNDDA  
LLKNYGLLYCFRKDMDKVETFLRIVQCRSVEGSCGF"

1 cgaaccactc agggtcctgt ggacagctca cctagctgca atggctacag gctccggac  
61 gtcctgctc ctggcttttg gcctgctctg cctgcccctgg ctcaagagg gcagtcctt  
121 cccaaccatt cccttatcca ggccttttgca caacgtatgc ctccgcgcc atcgctgca  
181 ccagctggcc ttgcacacctt accaggagtt tgaagaagcc tatatccaa aggaacagaa  
241 gtattcatc ctgcagaacc cccagaccc cctctgttc tcaagatcta ttccgacacc  
301 ctccaacagg gaggaaacac aacagaaaatc caacctagag ctgctccgca tctccctgt  
361 gtcatccag 1cggtggctgg agcccggtca gttccctcagg agtgcctcg ccaacagcc  
421 ggtgtacggc gcctctgaca gcaacgtcta tgacctcta aaggacctag aggaaggcat  
481 ccaaacgctg atggggagggc tggaaagatgg cagccccgg actggcaga tcttcaagca  
541 gacctacagc aagtgcaca caaactgcaca caacgtatgc gcactactca agaactacgg  
601 gtcgtctac tgcttcagga aggacatgga caaggtcgag acattccctgc gcatcgatc  
661 gtggccgtct gtggagggca gctgtggctt ctatgtccc gggggccatc cctgtgaccc  
721 ctccccagtg cctctcctgg ccctggaaatg tgccactcca gtgcccacca gccttgct  
781 aataaaaatta agttgcata  
//

Figure 19

Rat GIP Promoter -1 to -1894

(-1894)

5' \_GAGTGGCGACAGGCTGCTGCTAGCAGGCTCTACACTGAGCTAACCCACCCATAT  
ATATACA TAGTTACTATTAGCTTATTATTTAAGATTATCATTATATATAG  
TACACTGTAGTGTCTAGATAACACAGAAGAGGCATCGGTCTTACAGAGAGCCACC  
ATGTGGTTGCTGGGGATTGAACTCATACCTCTGGCAGAGCAGTCGGTCTTAACG  
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GATAAGAGGTTTCAGGTTAATCAGCACCCGTGGTGTGGATATAAGGAAGCTAA  
CACAGGGTCTTGAAGCAAGATC\_3' (-1)